

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-28. (Canceled)

29. (Currently Amended) A method of producing a material for use as a filter to purify sewage, the method comprising:

a) providing pre-sorted plastic material wastes comprising substantially polyethylene or polypropylene;

b) adding between about 0.01% and 5% by weight of a peroxide, with respect to the total weight of the plastic material, to the pre-sorted plastic material wastes; and

~~b~~c) forming the plastic material wastes into granular material.

30-44. (Canceled)

45. (Currently Amended) A method of producing a material for use as a filter to purify sewage, the method comprising:

a) providing pre-sorted plastic material wastes comprising substantially polyethylene or polypropylene;

b) The method as set forth in claim 29 further comprising an addition of adding between about 0.1% and 0.5% by weight of a peroxide, with respect to the total weight of the plastic material, to the pre-sorted plastic material wastes; and

c) forming the plastic material wastes into granular material.

46. (Canceled)

47. (Currently Amended) The method as set forth in claim 29 ~~further comprising adding a~~ wherein the peroxide added to the plastic material wastes is in ground form.

48-59. (Canceled)

60. (New) The method of claim 45 wherein the peroxide added to the plastic material wastes is in ground form.

61. (New) The method of claim 29 wherein the peroxide is provided by peroxide-bearing waste.

62. (New) The method of claim 45 wherein the peroxide is provided by peroxide-bearing waste.